



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) Publication number: 0 679 040 A3

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 95850077.9

(22) Date of filing: 18.04.95

(30) Priority: 18.04.94 US 229871

(43) Date of publication of application:  
25.10.95 Bulletin 95/43

(84) Designated Contracting States:  
AT BE CH DE DK ES FR GB GR IT LI NL SE

(88) Date of deferred publication of search report:  
13.12.95 Bulletin 95/50

(71) Applicant: Hughes Aircraft Company  
7200 Hughes Terrace,  
P.O. Box 80028  
Los Angeles, California 90080-0028 (US)

(51) Int. Cl.<sup>6</sup>: H04Q 7/20

(72) Inventor: Kluesing, Alvin Dale  
1950 Noblin Ridge Trail  
Duluth, GA 30136 (US)  
Inventor: Kwok, Sai  
9432 Hito Court  
San Diego, CA 92129 (US)

(74) Representative: Stolt, Lars C. et al  
L.A. Groth & Co KB  
P.O. Box 6107  
S-102 32 Stockholm (SE)

### (54) Remote programming of a radio telephone system

(57) A cellular telephone system (20) operable in conjunction with a cellular mobile telephone switching office (30) includes a subscriber unit (22) and a call routing system (34). The subscriber unit (22) includes a cellular transceiver (60), antenna (62), power plug (64), and handset (68), and, optionally, a battery pack. The subscriber unit (22), in one embodiment, has a plurality of dedicated calling buttons (24, 26, 28) that may be externally programmed and that, when operated, initiate cellular communication to one of three respective programmed telephone numbers. The telephone numbers corresponding to each of the dedicated calling buttons is programmable over the air using a remote-control programming method. A mobile identification number and a system identification number of the subscriber unit are also programmable over the air using the remote-control programming method so as to remotely activate the cellular telephone system.

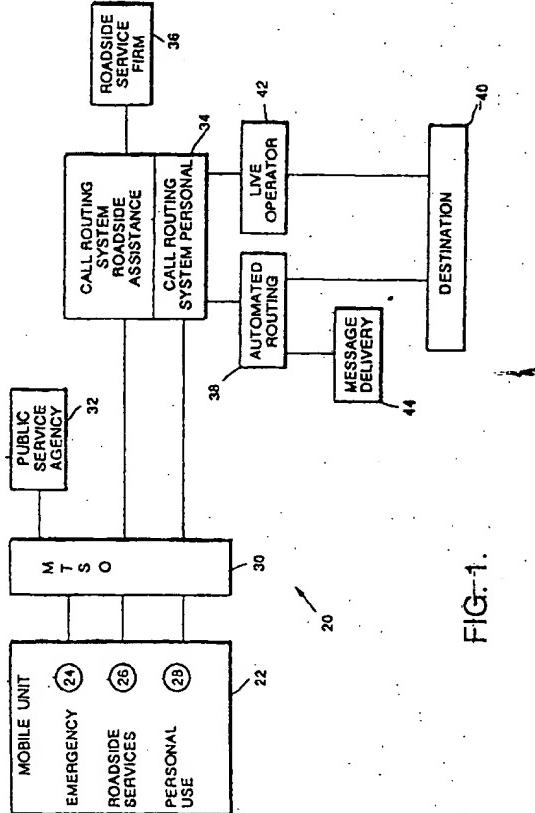


FIG.-1.

EP 0 679 040 A3

European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number

EP 95850077.9

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<u>DE - A - 4 130 024</u> (OKI TELEKOM) * Fig. 1-6; abstract; page 2, line 66 - page 3, line 37; page 4, lines 4-9; page 8, line 24 - page 9, line 52 *	1-10	H 04 Q 7/20
A	<u>US - A - 5 109 403</u> (GOLDSTAR PRODUCTS) * Fig. 1-7; abstract; column 6, line 4 - column 9, line 16 *	1-10	
A	<u>US - A - 5 247 564</u> (GTE MOBILE COMMUNICATIONS SERVICE) * Fig. 1-3,9-12; abstract; page 4, line 59 - page 5, line 6; page 11, line 64 - page 12, line 41; claims 1-3 *	1-10	TECHNICAL FIELDS SEARCHED (Int. Cl. 6)
A	<u>GB - A - 2 249 459</u> (MOTOROLA) * Fig. 6,7; abstract; page 6, lines 18-33; claims 1,2,5 *	1-10	H 04 Q 7/00 H 04 M 11/00 H 04 B 1/00 H 04 K 1/00
A	<u>US - A - 5 297 191</u> (AT & T BELL LABORATORIES) * Fig. 1,2; abstract; column 2, line 50 - column 5, line 12 *	1-10	
A	<u>US - A - 5 233 656</u> (LANGRAND) * Figs.; abstract;	1-10	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
VIENNA		28-09-1995	WENNINGER
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



European Patent  
Office

## **EUROPEAN SEARCH REPORT**

**Application Number**